



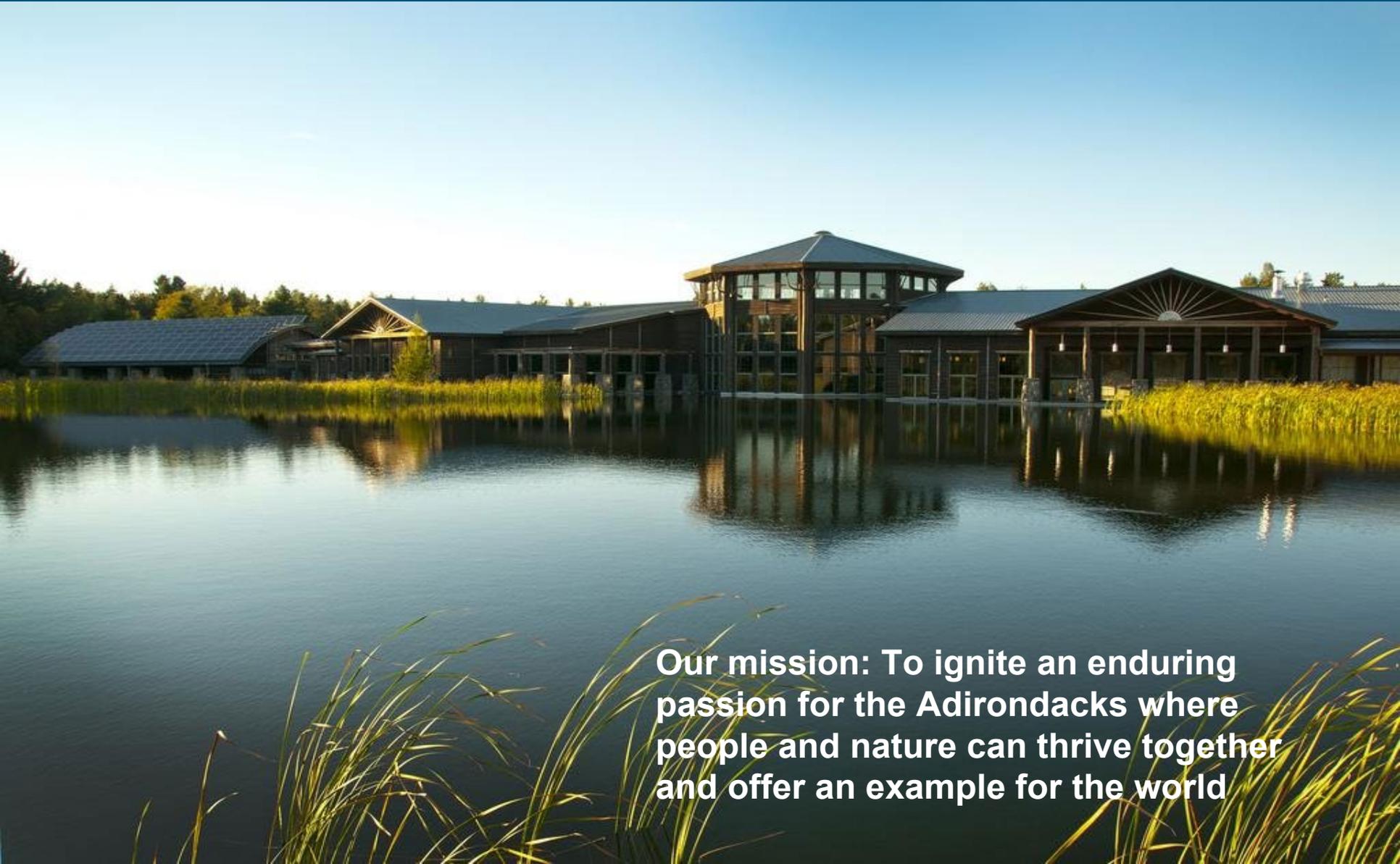
Active Remote Learning: SOS Explorer mobile and supplemental technologies for K-12 students



Presented by:
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The Wild Center



The Wild Center

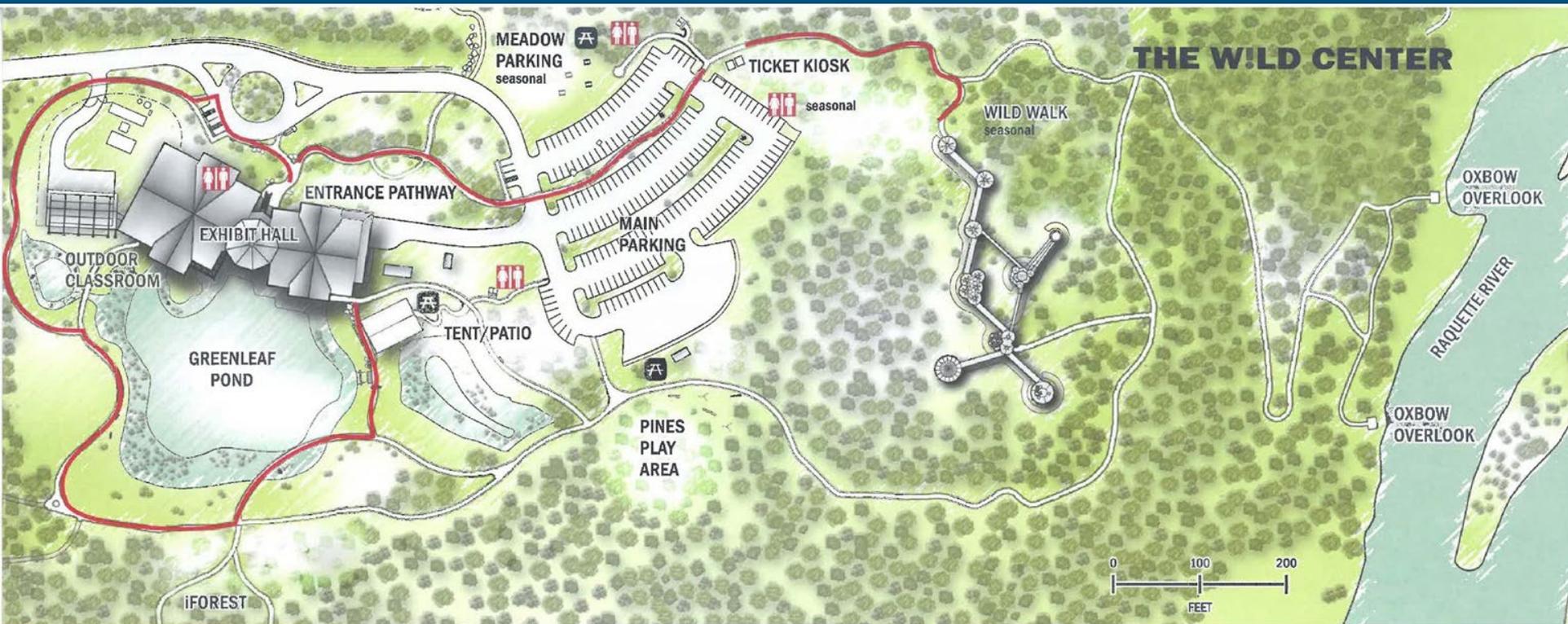
A photograph of The Wild Center building, a large, modern structure with a prominent central tower and multiple wings, situated behind a calm pond. The building's reflection is clearly visible in the water. The scene is set during the day under a clear blue sky, with tall grasses in the foreground. The text is overlaid in the bottom right corner.

Our mission: To ignite an enduring passion for the Adirondacks where people and nature can thrive together and offer an example for the world

The Wild Center

- A regional natural history museum in the heart of the Adirondacks in upstate New York
- Opened in 2006
- Planet Adirondack (Science on a Sphere) installed May 2012





Welcome!

The Wild Center is privately funded by members and other supporters. Members receive free admission and special pricing for guests. You can join today, or online at wildcenter.org/belong. We hope you enjoy your visit, and please check out our website, Facebook, Instagram, Snapchat, and Twitter to learn more about our mission and stay in touch.

Please see other side of this map for a detailed floorplan of our main interior space.

Trail System

Extensive trails can all be accessed from the outdoor cafe area.

 Accessible Outdoor Path

 Picnic Tables

Wild Walk

Our accessible trail across the treetops features engaging interactive experiences and begins on an outdoor path.

Tent/Patio

The site of our Thursday Farmer's Markets during the summer, it also features additional shaded seating for lunchtime visitors.

iForest

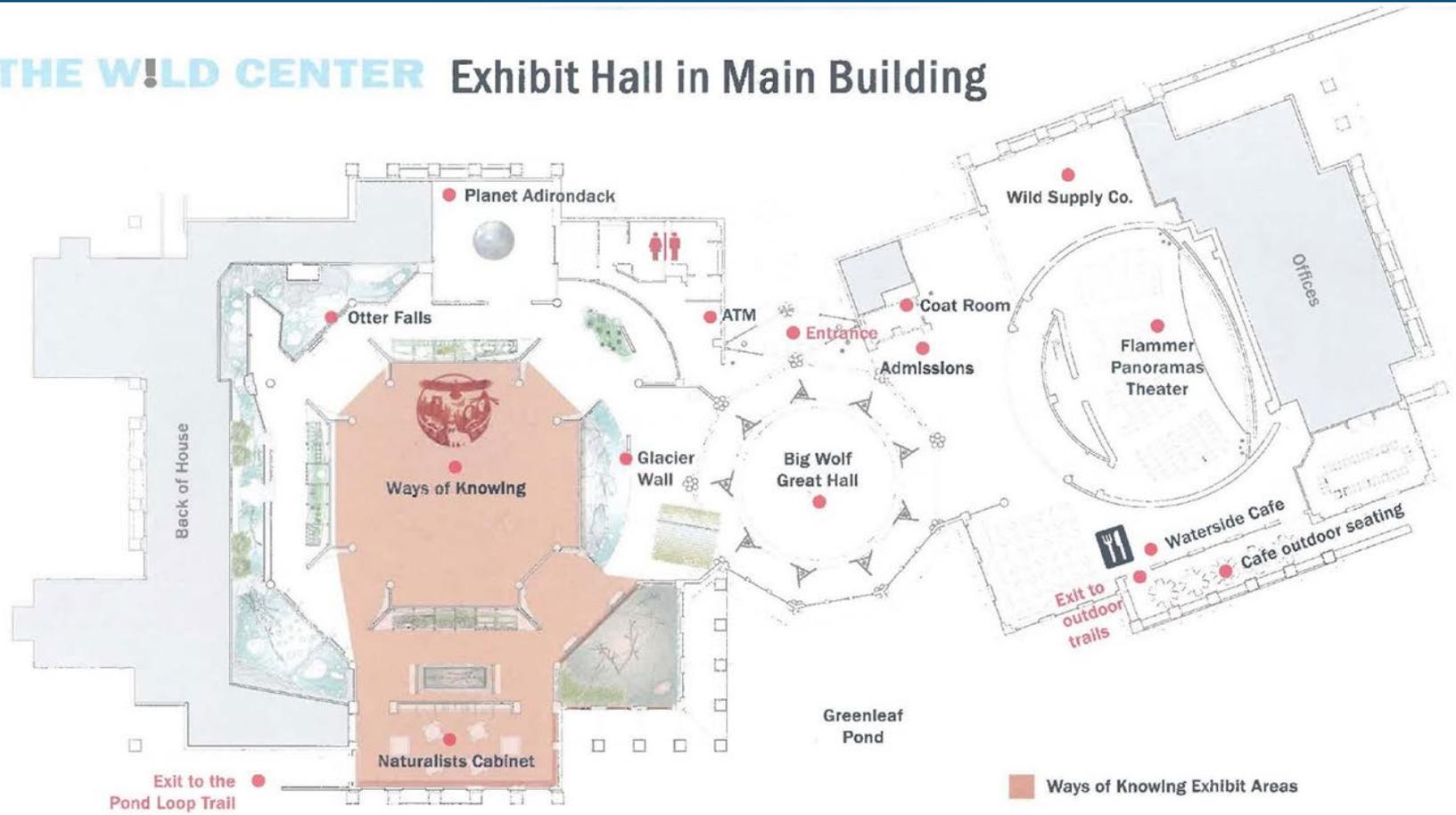
An immersive sound experience created by composer Pete M. Wyer, iForest features a walking trail that leads you directly through a choral composition - one created specifically for this forested area of The Wild Center.

Pines Play Area

A forested play area filled with climbing logs, balance beams and other natural objects and activities to engage and amuse kids of all ages.



THE WILD CENTER Exhibit Hall in Main Building

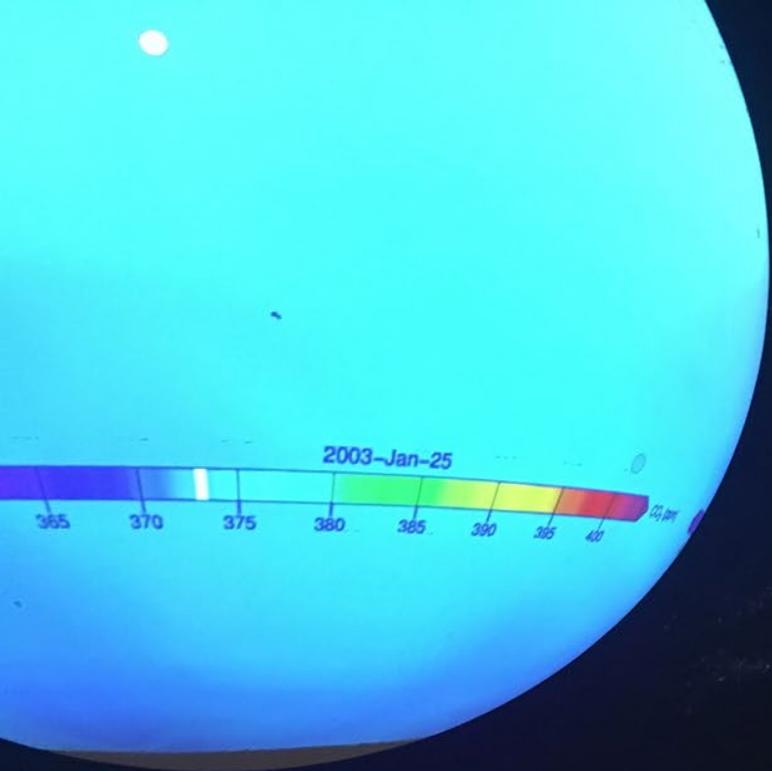


Planet Adirondack

- Since Planet Adirondack opened we have had over 800,000 visitors through the center, many who have experienced SOS
- Face to face interactions with visitors was the number one way that we connected at The Wild Center
- Using SOS we are able to make those connections by bringing global ideas to the local scale

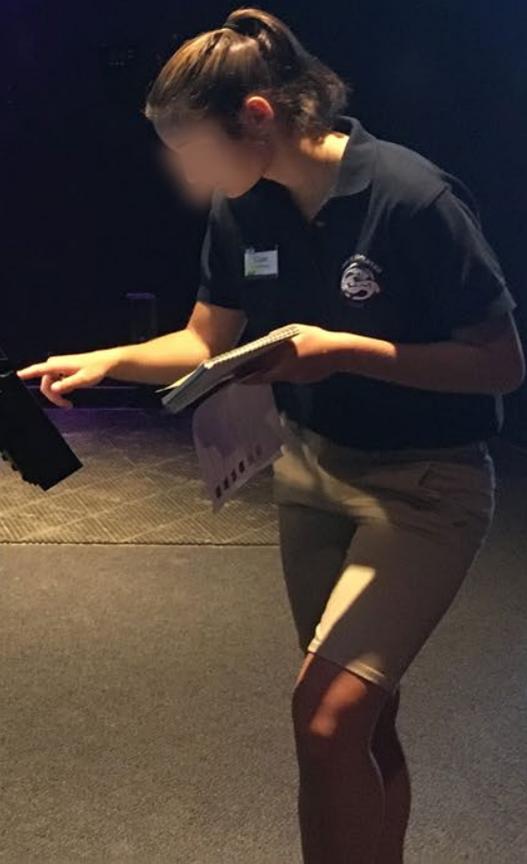






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create your own instrument.

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**What makes a strong/effective
digital program?**

Ways we have engaged students

- Think like a scientist
- Phenomenon to introduce an earth science lesson
- App used for exploration of The Adirondacks and beyond
- Paired with activity proposed in lesson plans
- Virtual Field Trip - supporting documents/resources

Activity Time

Adirondack Forests

- The Adirondack Mountains are a temperate forest
- Difference between deciduous and coniferous trees
- What is going on with this dataset?
- Supporting document for home exploration

FOREST EXPLORATION: with SOS Explorer!



For this activity we are going to use our powers of observation along with some really cool technology to help us learn more about forests around us and around the world!

What you'll need:

- A smartphone or tablet
- Download [SOS Explorer App](#) (free download on the app store)
- This sheet, a piece of paper, or Science Notebook to write down your observations and ideas



PART 1 - Trees and Forests Near Me:

Take a look outside to find some trees and plants to observe. Write down or draw your observations below.

- Do they look the same now as they do during other seasons?
- How have they changed?
- How have they stayed the same?

PART 2 - SOS Explorer App

Now it's time to look at how the trees, forests and plants near you fit into forests around the world! For this section of the activity we will be using NOAA's SOS Explorer App to take a look at the Earth and its forests (and plants) from space!

Step 1 - Download NOAA's [SOS Explorer App](#)

- Unable to download the app? Check out the same datasets listed below on NOAA's SOS [Website](#). Just type their names* in the search at the top LEFT.

*NOTE - names may be a bit different from those in the SOS Explorer App.

Step 2 - Open up the SOS Explorer App

- What do you notice about the Earth?
- Do you see any patterns right away?
- What colors do you see and what do they represent?
- Can you find where you live on the globe?

Step 3 - Using the SOS Explorer App



The picture above is from the SOS Explorer App.

- On the LEFT side of the screen you will find a whole list of “datasets” that you can click on to explore on the globe! These datasets let you explore over time and space/area.
- **We will be exploring Forests in these 3 Datasets:**
 - **Vegetation Change - April 2012 - April 3013**
 - **Biosphere - 20 Years**
 - **Forest Change (Extent, Gain, and Loss) - 2000 - 2014**

EXPLORE: SCIENCE ON A SPHERE



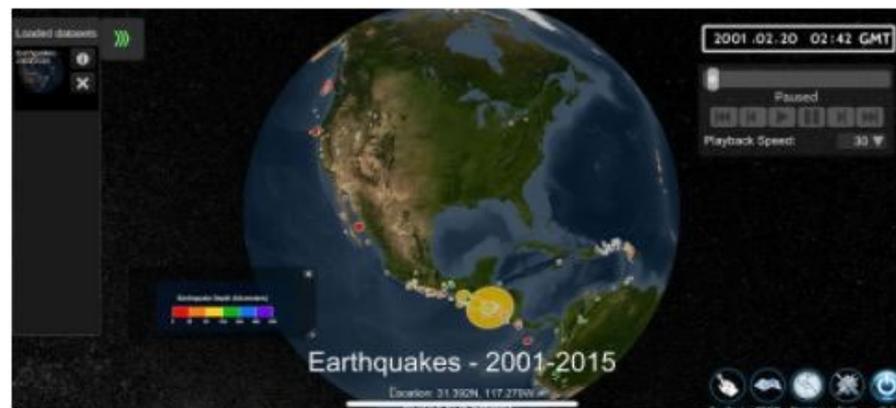
1. **Look at the Earth from a different perspective.** Download the free SOS Explorer (SOSx) mobile app on your device or visit <https://sos.noaa.gov/Datasets/> to have access to hundreds of the National Oceanic and Atmospheric Administration's datasets.

2. **Explore the different categories of datasets** to learn more about the science that surrounds our planet and how it has changed over time. You can zoom in to where you live or even take a look at planets out of our solar system. Categories include: air, water, snow & ice, space, people, land, and more!

3. **Each dataset comes with information about how the data was collected and how to interpret what you're seeing.** If using the [SOSx](#) app, click the information button next to the dataset under the "Loaded datasets" menu to learn more about it. On the app there are many options which allow you to change the way you view the dataset, such as 2D map modes and distance measuring tools.

NOTE: If using a browser:

- Click the "View interactive sphere" button on the right hand column.
- If the dataset shows change over time, press the play button to watch a video of the dataset in action.



EXPLORE: SCIENCE ON A SPHERE

Once you've looked at a few different datasets, choose your favorite and share what you've learned:

Title of Dataset:

What did this dataset show?

What did you like about it?

What did you learn from it?

Which area of the map did you find to be the most interesting?

Were there any parts that confused you?

If you were the scientist who collected this data, how would you continue your research?



Worked Well/Challenges

- Staying relevant to schools- keeping students connected to nature/earth sciences without ability to visit
- Staff enrichment/learning -how to make regular occurrence?
- Accessibility of app -free, wealth of information available at home and for teachers, does everyone have ipad/tablet?
- Using sphere for digital programs in future

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